

ACCUCAST

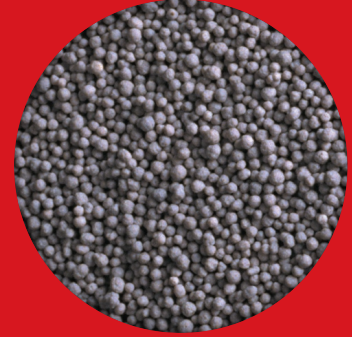
High-performance ceramic casting media

Features

- Chemically inert and does not produce respirable silica dust
- Available in low-density (LD) and intermediate-density (ID)
- Uniform size and shape
- Exceptionally round grains with spherical structure
- High hardness and durability

Benefits

- Improved dimensional accuracy
- Fewer defects
- Faster production cycling times
- Reduced scrap and cleaning
- Reduced media and energy consumption and costs
- Improved QHSE and sustainability



Particle size properties

Sieve No.	Microns	ID15	ID25	ID40	ID50	ID60	ID70	ID80	LD10	LD20	LD30	LD40	LD45
16	1,180	1							5				
18	1,000	7											
20	850	34	5						94	6			
30	600	54	55						1	66	1		
40	425	4	40	19						28	91	32	1
50	300			72	37	22					7	45	68
70	212			8	45	38	35	1			1	22	30
100	150			1	16	32	43	51				1	1
140	106				2	8	21	43					
200	75						1	5					
270	53												
AFS GFN		15	25	40	50	58	70	85	10	20	30	40	45
Permeability		2,189	979	419	222	108	88	64	2276	985	697	329	297

Other sizes available on request, including ACCUCAST FLOUR.

Physical and thermal properties @1100°C

	ACCUCAST ID	ACCUCAST LD	Zircon	Chromite	Silica
Absolute density (g/cc)	3.27	2.71	4.65	4.51	2.65
Loose BD (lb/ft ³)	113	94	168	163	100
Packed BD (lb/ft ³)	125	109	189	183	110
Thermal expansion (PLE)	0.29	0.25	0.07	0.43	.87
Coefficient of expansion (1E-6 in/in-°C)	2.75	2.33	0.68	3.99	8.14
Thermal conductivity (W/m-°C)	0.70	0.75	0.63	0.94	1.14
Heat capacity (cal/g-°C)	0.26	0.23	0.225	0.27	0.26
Thermal diffusivity (cm ² /s)	0.0032	0.0046	0.0022	0.0029	0.0060
Heat diffusivity 10 ⁶ (W ² s)/(m ⁴ °C ²)	1.55	1.23	1.79	3.06	2.17
Square root of heat diffusivity (Ws ^{1/2})/(m ² °C)	1,250	1,100	1,340	1,750	1,470

Chemical composition (weight %)

ACCUCAST	Al ₂ O ₃	SiO ₂	TiO ₂	Fe ₂ O ₃	LOI (%)	Moisture (%)	pH	ADV@pH5	ADV@pH7
ID	70-80	10-20	1-5	5-10	0.15	0.03	6.90	0.60	0.00
LD	40-50	40-50	1-5	1-5	0.02	0.08	6.90	-1.30	-1.70

ACCUCAST ceramic media DOES NOT produce respirable silica dust.

Talk to CARBO to find out how we can help you enhance your production.

+1 800 551 3247
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